

- ▶ **High quality micro switches for a wide range of applications**
- ▶ **Excellent performance, high reliability and long service life**
- ▶ **UL/cUL and ENEC certification**
- ▶ **Applications - mouse, joystick, small home appliance, central heating control**
- ▶ **Special applications for gaming mouse - DF3-0.1A, Min. 20,000,000 operations**

Specification	
Contact resistance (initial)	Max. 100mΩ Measured by ohm meter –Open Voltage<1VDC, Driver current -100mA
Insulation Resistance (at 500 VDC / minute)	Min. 100 MΩ
Dielectric Strength	Min. 500VAC (50-60HZ)/minute between live parts. Min. 1500VAC (50-60HZ)/minute between live parts and dead metal parts
Operating Temperature Range	-40°C to +85°C (with no icing)
Vibration	10~55Hz, displacement 0.75 mm (p-p)
Electrical Service Life	Min. 10,000 operations
Electrical Operating Frequency	10~30 operations per minute
Mechanical Service Life	Min. 5,000,000 operations
Mechanical Operating Frequency	120 operations per minute
Operating application of the switch	Set the switch pushing distance from 60% to 90% of the specified OT value



Certification information

	UL - cUL	ENEC
DF3-03	3RA 125/250VAC μ T55 1E4 3RA 24VDC μ T55 1E4	3A 125/250VAC μ T55 1E4 3A 24VDC μ T55 1E4
DF3-S3	3RA 125VAC μ T55 5E4 3RA 250VAC μ T55 3E4 3RA 24VDC μ T55 1E4	3A 125VAC μ T55 5E4 3A 250VAC μ T55 3E4 3A 24VDC μ T55 1E4
DF3-05	5RA 125/250VAC μ T85 1E4 3RA 24VDC μ T85 1E4	5A 125/250VAC μ T85 1E4 3A 24VDC μ T85 1E4

Selection of rating & force

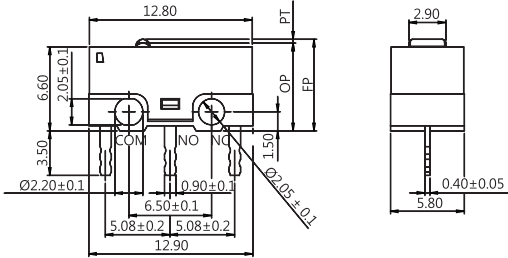
MODEL	Rating	L	S
DF3-03	3A	★	★
DF3-S3	3A	★	★
DF3-05	5A	★	★

Note: The " ★ " Symbol represents the result is accepted

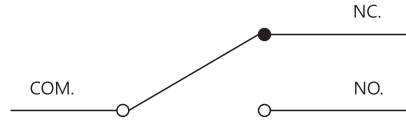


Dimensions

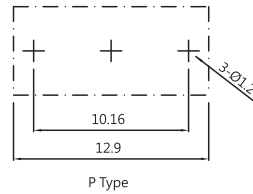
Unless otherwise specified, a tolerance of $\pm 0.4\text{mm}$ applies to all dimensions.



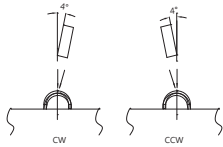
CONTACT CONFIGURATION



MOUNTING HOLES



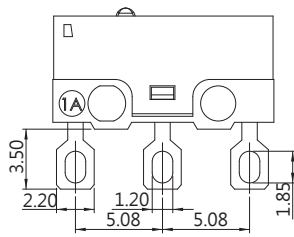
PRESSING DIRECTION IS SUGGESTED TO BE VERTICAL AND WITH $\pm 4^\circ$



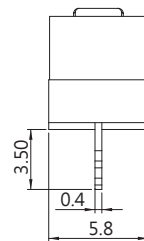
Available for the model that mouse has stoppers added more than Min.0.1mm

Terminal types

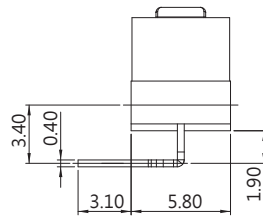
E type



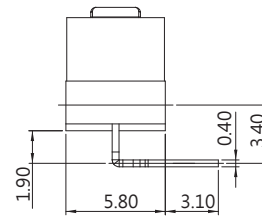
P type



C type

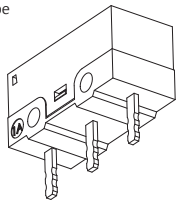


D type

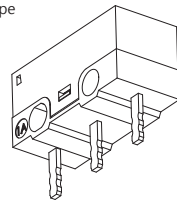


Stecker types

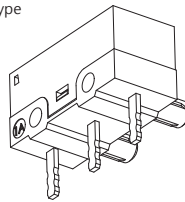
A0 type



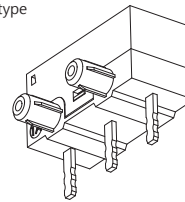
B0 type



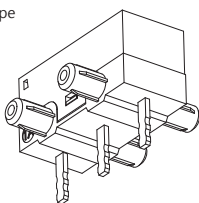
C1 type



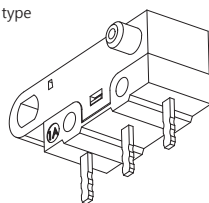
C2 type



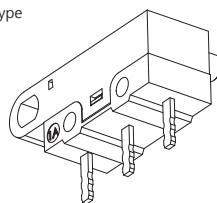
C3 type



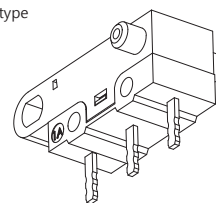
D4 type



D5 type



D6 type





Ordering information

(Please use the characters in the chart below to create your product code)

Sample Code DF3 - 03 S 0 - 01 P 0 C 1 - 0A - Z




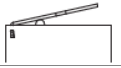

Rating Current

03	3A 125/250VAC
05	5A 125/250VAC
S3	3A 125/250VAC (High Life)





Operating Force

S	standard
L	light

Actuator Type

00	
01	
02	
03	
04	

Terminal type

C	
D	
P	
E	



Ordering information

(Please use the characters in the chart below to create your product code)

Sample Code DF3 - 03 S 0 - 01 P 0 C 1 - 0A - Z


Circuit Arrangement


- 0 S.P.D.T


- 1 S.P.S.T No


- 2 S.P.S.T NC

Pillar & Mounting Holes Type

- A 


- B 


- C 


- D 

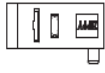
Pillar Type


- 0 Without Pillar


- 1 

- 2 

- 3 

- 4 

- 5 

- 6 

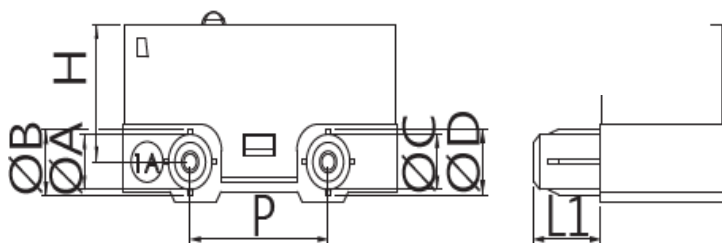
Serial Code - Dimensions

See table below

If you require a customized solution for your program contact our sales team.

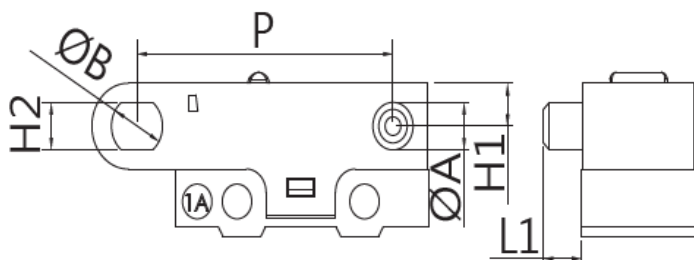


Serial code - Dimensions for C1/ C2 / C3 Types



Code	L1	H	A	B	C	D	P
A	3.15	5.10	2.05	2.45	2.05	2.45	6.50

Serial code - Dimensions for D4/ D5 / D6 Types



Code	L1	H1	H2	A	B	P
A	1.95	1.85	2.05	2.05	2.55	13.05



Operating characteristics

SWITCH TYPE	PART SUFFIX	OF Max. (gf)		OP (mm)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	RF Min. (gf)
DF3- □□□ -0 □ -Z		L	80	7.0±0.2	0.5	0.2	0.12	7.50	21
		S	150						35
DF3- □□□ -1 □ -Z		L	30	8.2±0.8	3.4	0.6	0.8	10.1	5
		S	56						8
DF3- □□□ -2 □ -Z		L	25	10.2±0.8	3.5	0.7	0.92	14.2	5
		S	43						7
DF3- □□□ -3 □ -Z		L	35	7.9±0.5	2.1	0.3	0.4	9.3	5
		S	57						12
DF3- □□□ -4 □ -Z		L	36	8.0±0.6	2.5	0.5	0.7	10.8	6
		S	60						10
DF3- □□□ -5 □ -Z		L	50	9.2±0.6	1.64	0.49	0.3	10.15	7
		S	75						11
DF3- □□□ -6 □ -Z		L	30	8.33±0.9	3.5	0.6	0.8	10.6	5
		S	50						8
DF3- □□□ -7 □ -Z		L	27	10.75±0.9	3.5	0.3	0.8	13.5	3
		S	48						8
DF3- □□□ -8 □ -Z		L	33	8.15±0.7	2.8	0.6	0.7	11.2	5
		S	54						9
DF3- □□□ -9 □ -Z		L	13	9.5±1.7	6.9	0.55	1.9	16.8	2
		S	21						3